APPLICATION OF MATHEMATICAL MODEL FOR CALCULATING THE OPTIMAL NUMBER OF COTTON IN INVENTORY PT. XYZ USING MICROSOFT VISUAL BASIC 6.0

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Abstract:
Determining the model is a necessity in a company, Total material consumption of cotton is uncertain within a company can result in losses, the amount of inventory that is too much compared to the amount needed would result in overlapping inventories and working capital investment means embedded and useless. In addition cotton is easy once the goods are damaged and if damaged can not be used again in other words should be discarded. Conversely, if the amount of inventory is not sufficient amount of the request or demand would cause interruption of the production process that can damage the company image in the eyes of the customer.
Therefore, it needs an inventory model that is able to answer condition above, so in determining the optimal model of cotton supply in PT. XYZ, where the use of cotton each month is uncertain. Mathematical models is an approach that the authors analyzed for application at. PT. XYZ. With this mathematical model it can be determined the optimal amount of cotton supplies each month is also equipped with a table-making opportunity loss as consideration for decision making.

Bibliography: 8,(1986 – 2002)